

10/550621

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

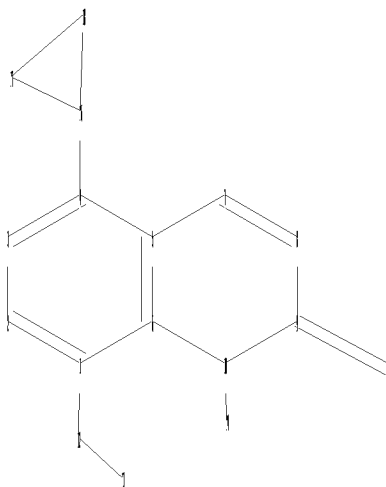
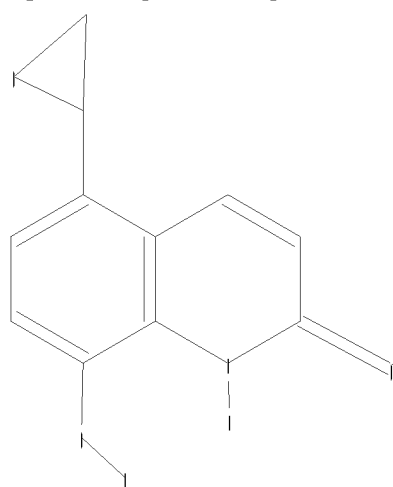
L * * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:59:48 ON 22 SEP 2008

=> file reg

=>

Uploading C:\Program Files\Stnexp\Queries\11.str



chain nodes :

11 12 13 14

ring nodes :

1 2 3 4 5 6 7 8 9 10 16 17 18

chain bonds :

1-12 4-16 9-11 10-14 12-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 16-17 16-18 17-18

exact/norm bonds :

1-12 5-7 6-10 7-8 8-9 9-10 9-11 16-17 16-18 17-18

exact bonds :

4-16 10-14 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS 18:Atom

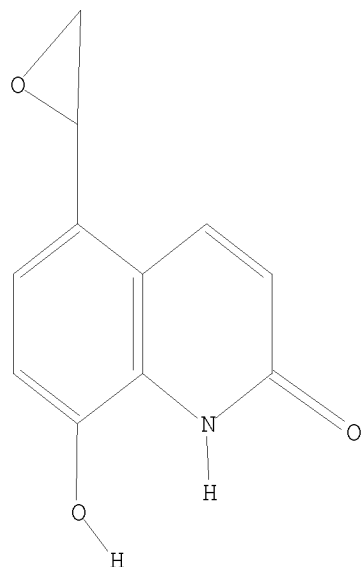
10/550621

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

SAMPLE SEARCH INITIATED 14:00:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 357 TO ITERATE

100.0% PROCESSED 357 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 6007 TO 8273

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:00:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8317 TO ITERATE

100.0% PROCESSED 8317 ITERATIONS

2 ANSWERS

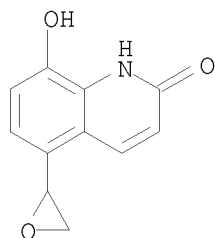
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

10/550621

=> d scan

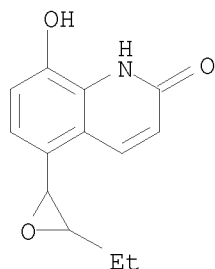
L3 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2(1H)-Quinolinone, 8-hydroxy-5-oxiranyl- (9CI)
MF C11 H9 N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2(1H)-Quinolinone, 5-(3-ethyloxiranyl)-8-hydroxy- (9CI)
MF C13 H13 N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file ca

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'CA' ENTERED AT 14:00:31 ON 22 SEP 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 18 Sep 2008 VOL 149 ISS 13
FILE LAST UPDATED: 18 Sep 2008 (20080918/ED)

CA now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 13:59:48 ON 22 SEP 2008)

FILE 'REGISTRY' ENTERED AT 14:00:04 ON 22 SEP 2008

L1 STRUCTURE UPLOADED
L2 0 S L1 SAM
L3 2 S L1 FULL

FILE 'CA' ENTERED AT 14:00:31 ON 22 SEP 2008

=> s 13

L4 4 L3

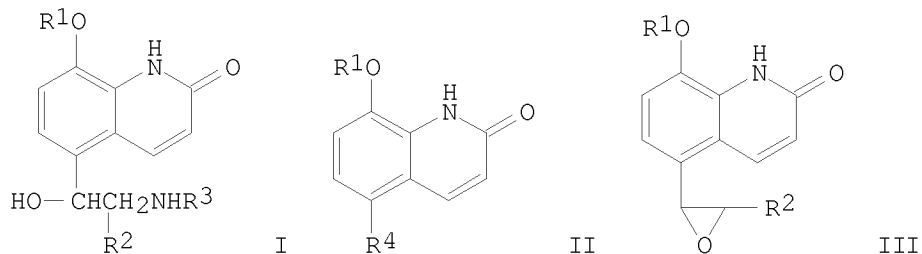
=> s 13/p

L5 3 L3/P

=> d ibib abs fhitr 1-3

L5 ANSWER 1 OF 3 CA COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 106:67139 CA
ORIGINAL REFERENCE NO.: 106:11039a,11042a
TITLE: Process for the preparation of substituted quinolones
INVENTOR(S): Arin Abad, Maria Jesus; Cossent Aguinaco, Isaac;
Fernandez Martin, Juan Antonio
PATENT ASSIGNEE(S): Astur Pharma, Spain
SOURCE: Span., 10 pp.
CODEN: SPXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| ES 549575 | A1 | 19860316 | ES 1985-549575 | 19851204 |
| PRIORITY APPLN. INFO.: GI | | | ES 1985-549575 | 19851204 |



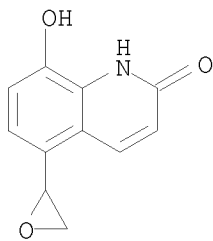
AB Antihistaminic and antiasthmatic quinolone derivs. I [R1 = H, alkyl, aralkyl; R2 = H, alkyl; R3 = alkyl (preferably branched)] are prepared by Friedel-Crafts acylation of quinolones II (R4 = H) with a chloride or anhydride of R2CH2CO2H, reduction of the resultant II (R4 = COCH2R2) and subsequent dehydration with strong mineral acid, epoxidn. of the obtained II (R4 = CH:CHR2), and aminolysis of epoxides III with R3NH2. Examples of the acylation, reduction-dehydration, and epoxidn. gave yields of 87, 60, and 64%, resp. An example aminolysis of III (R1 = H, R2 = Et) with Me2CHNH2 gave 90% I (R1 = H, R2 = Et, R3 = CHMe2), i.e. procaterol.

IT 63170-00-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 63170-00-3 CA

CN 2(1H)-Quinolinone, 8-hydroxy-5-oxiranyl- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 3 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 87:53099 CA

ORIGINAL REFERENCE NO.: 87:8411a,8414a

TITLE: 5-[(2-Halo-1-hydroxy)alkyl]carbostyryl derivatives

INVENTOR(S): Nakagawa, Kazuyuki; Yoshizaki, Shiro; Tanimura, Kaoru;
Tamada, Shigeharu

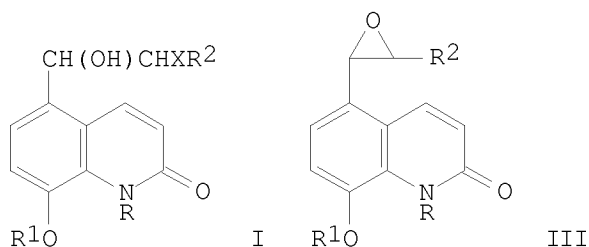
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|------------|
| JP 51136679 | A | 19761126 | JP 1975-60055 | 19750519 |
| JP 59006861 | B | 19840215 | | |
| PRIORITY APPLN. INFO.: GI | | | JP 1975-60055 | A 19750519 |

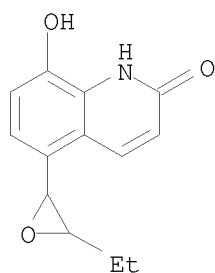


AB The carbostyrils I [R, R1, R2, X = H, H, H, H, Br (II); Me, Me, Et, Cl] were prepared by reaction of oxiranylcabostyrils III with HX. Thus, 5-(1,2-epoxybutyl)-8-hydroxycarbostyril in 47% aqueous HBr was stirred 4 h at 80° to give II.

IT 63169-99-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ring cleavage of, by hydrogen bromide)

RN 63169-99-3 CA

CN 2(1H)-Quinolinone, 5-(3-ethyloxiranyl)-8-hydroxy- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 3 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 87:39300 CA

ORIGINAL REFERENCE NO.: 87:6195a,6198a

TITLE: 5-(1,2-Epoxyalkyl)carbostyril derivatives

INVENTOR(S): Nakagawa, Kazuyuki; Yoshizaki, Shiro; Tanimura, Kaoru; Tamada, Shigeharu

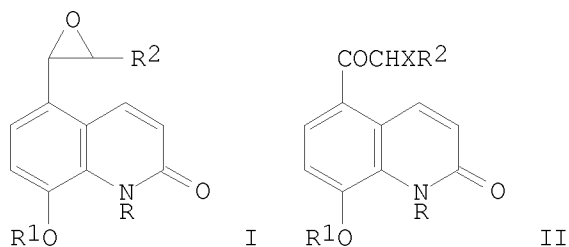
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

10/550621

DOCUMENT TYPE: CODEN: JKXXAF
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1 Japanese
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|------------|
| JP 51136680 | A | 19761126 | JP 1975-60056 | 19750519 |
| JP 59006862 | B | 19840215 | | |
| PRIORITY APPLN. INFO.: GI | | | JP 1975-60056 | A 19750519 |

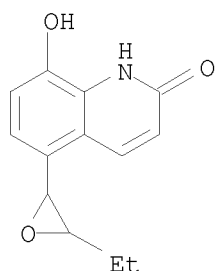


AB 5-(1,2-Epoxy)carbostyryl derivs. I [(R, R1, R2 = H, H, Pr (II); Me, Me, Me] were prepared by reduction of III (X = halo). Thus, 2.2 g NaBH4 in 20 ml 10% aqueous NaOH was added to 6.2 g 5-(α -bromobutyryl)-8-hydroxycarbostyryl in MeOH with ice cooling and the mixture stirred 4 h at room temperature to give 2.7 g II.

IT 63169-99-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 63169-99-3 CA

CN 2(1H)-Quinolinone, 5-(3-ethyloxiranyl)-8-hydroxy- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 13:59:48 ON 22 SEP 2008)

FILE 'REGISTRY' ENTERED AT 14:00:04 ON 22 SEP 2008

L1 STRUCTURE UPLOADED

10/550621

L2 0 S L1 SAM
L3 2 S L1 FULL

FILE 'CA' ENTERED AT 14:00:31 ON 22 SEP 2008

L4 4 S L3
L5 3 S L3/P

=> s l4 not l5

L6 1 L4 NOT L5

=> d ibib abs fhitr

L6 ANSWER 1 OF 1 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 87:68179 CA

ORIGINAL REFERENCE NO.: 87:10849a,10852a

TITLE: 5-[(2-Alkylamino-1-hydroxy)alkyl]carbostyryl
derivatives

INVENTOR(S): Nakagawa, Kazuyuki; Yoshizaki, Shiro; Tanimura, Kaoru;
Tamada, Shigeharu

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

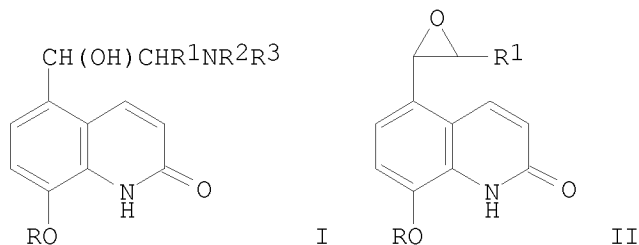
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| JP 51136678 | A | 19761126 | JP 1975-60054 | 19750519 |
| JP 59006860 | B | 19840215 | | |
| PRIORITY APPLN. INFO.: | | | JP 1975-60054 | A 19750519 |

GI



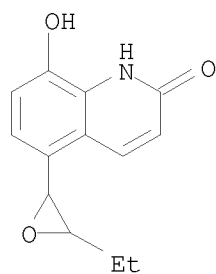
AB Nine title derivs. I (R = H, Me; R1 = H, Et; NR2R3 = Me2CHNH, EtNH, PhCHMeNH, cyclohexylamino, piperidino, morpholino, etc.) were prepared by treating II with HNR2R3. I are bronchodilating, vasodilating, or hypotensive agents (no data). Thus, 3.0 g 5-(1,2-epoxybutyl)-8-hydroxycarbostyryl in MeOH was stirred with 10 mL iso-PrNH2 5 h at 60° to give, after treatment with HCl, 0.6 g I.HCl (R1 = Et, R2 = iso-Pr, R = R3 = H).

IT 63169-99-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(amination of)

10/550621

RN 63169-99-3 CA
CN 2(1H)-Quinolinone, 5-(3-ethyloxiranyl)-8-hydroxy- (9CI) (CA INDEX NAME)



=>

---Logging off of STN---

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Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 14:01:58 ON 22 SEP 2008